

## Job Description

### Research & Development Engineer/Scientist (Optoelectronics)

#### About G2V Optics

G2V's founding mission is to develop and commercialize technology that will enable food production for a growing population while significantly reducing fresh water and land use. We do this by improving yield, quality, and operating costs for commercial growers through automated, integrated, intelligent growing technology. We are obsessed with using new technology to make a difference and continue to develop some of the most dynamic and innovative new products for the fast-growing indoor and vertical horticulture market.

We are an agile team that functions on a startup-style culture based on quick learning, honesty and personal development, flexibility, and balance.

#### Summary

The *R&D Specialist* reports to the *CTO* and is responsible for the planning, management, execution, and reporting of research and product development projects for the next generation of G2V's optics, electronics, lighting, monitoring, and software technology.

Our new team member will have an opportunity to be a ground-level employee of a growing company. Compensation will be based on relevant experience. Committed team members will also have the opportunity to participate in a stock option program.

#### Primary Responsibilities

- Plan, execute, manage, and report on projects within G2V's early-stage product development plan
- Identify, budget, write, and report on external grant and funding applications to fund industrial & applied R&D work
- Design and carry out hands-on experiments with optics, electronics, monitoring, and software systems to demonstrate and validate novel potential product design aspects for G2V's advanced lighting and monitoring systems
- Contribute to building internal systems, automation, algorithms, and creative processes to improve overall business productivity
- Interface with applications and engineering teams for user input and hand-off to design-for-manufacture
- Properly document experimental research, planning, and findings according to G2V's quality management standards
- Be a leader for continuous improvement and process development within your relevant area

#### Target Skills & Qualifications

The successful candidate should be prepared for an ever-changing set of challenges, and willing to quickly adjust priorities and tasks to make forward progress in addition to possessing:

- A Graduate degree in Electrical or Computer Engineering, Physics, Computer Science or a related field from an accredited post-secondary institution (M.Sc. minimum, Ph.D., preferred)
- Proven track record with at least five (5) years of experience in industrial research and product development
- Demonstrated success in planning and managing external grant and funding applications and projects exceeding \$100k in value



G2V

G2V Optics Inc.

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- Applied knowledge of optics and electronics (theory, design, characterization, equipment, safety, and best practices)
- Diverse experimental skills for rapidly iterating and bringing prototypes to life with a “focused hacker” mentality, with deep experience in experimental optical systems and experience balancing contradictory specifications and requirements
- Excellent analytical, organizational, communication (written & verbal), and problem-solving skills
- Experience with artificial intelligence, machine learning, and reinforcement learning is considered a large asset
- Interest and awareness around sustainability

*To apply please send your cover letter and current resume as a single PDF on our Careers form page or by sending an email directly to [jobs@g2voptics.com](mailto:jobs@g2voptics.com). Candidates must be legally eligible to work in Canada and willing to relocate to Edmonton, Alberta*

*G2V thanks all candidates for their interest; in light of the large volumes of applications received only those candidates selected for interview will be contacted.*